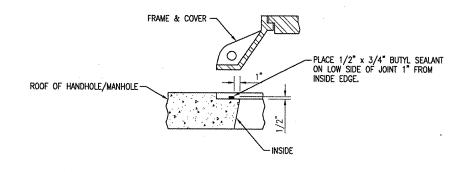
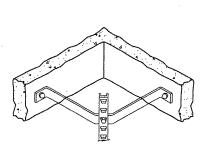


PRECAST 4'x4'x4' MANHOLE

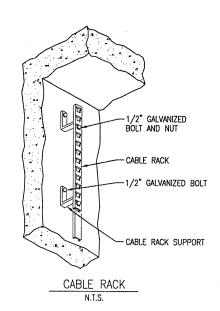


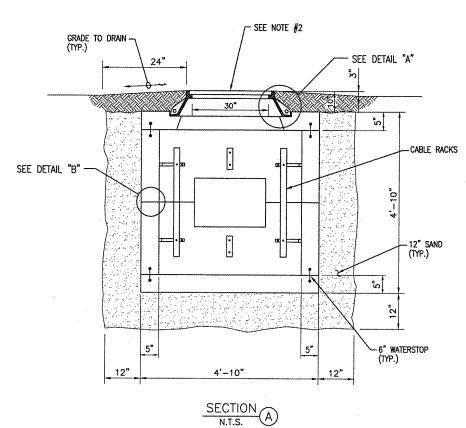


CABLE RACK SUPPORT

CORNER BRACKET

N.T.S.





PRECAST 4' x 4' x 4' MANHOLE DETAILS
N.T.S.

PRECAST 4'x4'x4' ELECTRICAL MANHOLE NOTES

1. 4'x4'x4' ELECTRICAL MANHOLE SHALL BE CONSTRUCTED TO MEET THE FOLLOWING:

DÉSIGN CRITERIA:

- 1) DESIGN SPECIFICATION: ACI 318, AASHTO LOAD FACTOR DESIGN METHOD, AND ASTM C858
- 2) DESIGN LOADING: AASHTO HS20 (32,000 LB/AXLE)
- 3) LIVE LOAD SURCHARGE: .5% OF THE WHEEL LOADING APPLIED TO 8'-0" OF DEPTH.
- 4) CONCRETE COMPRESSIVE STRENGTH: F'c = 4500 PSI
- 5) REINFORCING STEEL: ASTM A706, Fy = 60000 PSI

DESIGN ASSUMPTIONS:

- 1) GROUND WATER LEVEL: 3'-6" BELOW GRADE.
- 2) EARTH COVER: 2'-0" MINIMUM TO 5'-0" MAXIMUM
- 3) LIVE LOAD IMPACT: 2'-0" 1 = 20%
 - 3'-0" TO 5'-0" 1 = 0%
- 4) COEFFICIENT OF ACTIVE EARTH PRESSURE: $K_0 0.3$ 5) SPECIFIC WEIGHT OF STD. AGGREGATE CONCRETE" 150 PCF
- 6) SPECIFIC WEIGHT OF DRY EARTH: 100 PCF
- 7) SPECIFIC WEIGHT OF SATURATED EARTH: 120 PCF
- 8) EQUIVALENT FLUID PRESSURE OF DRY EARTH: 30 PSF
- 9) EQUIVALENT FLUID PRESSURE OF SATURATED EARTH: 80 PSF

THE SUPPLIER SHALL PROVIDE CERTIFICATION THAT THE PRECAST MANHOLES MEET OR EXCEED THESE REQUIREMENTS PRIOR TO INSTALLATION.

- MANHOLE FRAME & LID SHALL BE CAPABLE OF WITHSTANDING MINIMUM 50,000 POUND LOADS.

 MANHOLE FRAME & LID SHALL BE NEENAH CATALOG NO. R-1640-C OR APPROVED EQUAL. LID
 FOR HIGH VOLTAGE MANHOLE SHALL BE LABELED "HIGH VOLTAGE". LID FOR LOW VOLTAGE
 MANHOLE SHALL BE LABELED "LOW VOLTAGE".
- COORDINATE DUCT BANK INTERFACE & OPENINGS WITH THE MANHOLE MFR. CONTRACTOR SHALL SLOPE DUCT BANK TO PRECAST MANHOLE OPENINGS. ALL OPENINGS SHALL BE SEALED WATERTIGHT AFTER DUCT BANK INSTALLATION.
- 4'x4'x4' MANHOLE SHALL BE MANUFACTURED BY HARTFORD CONCRETE PRODUCTS, INC., 1400 N. WABASH AVE., P.O. BOX 660, HARTFORD CITY, IN. 47348, PHONE 765-348-3506 OR 1-800-428-8110, OR APPROVED EQUIVALENT.
- 5. 4'x4'x4' MANHOLE SHALL BE PAID FOR UNDER ITEM AR110710 ELECTRICAL MANHOLE PER EACH.

	DATE	REVISION	PY BY
COLES COUNTY AIRPORT			
VANTHOREY.			
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COLES-COLMITY MEMORIAL AIRPORT			
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L PROJ.: MIC-3/82 A.P. PROJ.: 3-1/-0166-R20			

CO053

Hanson Professional Services Inc.

REPLACE ELECTRICAL DUCT IN FRONTAL AREA 4' x 4' x 4'

20 20 of 22 sheets

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URPORTS/COLES/0740101/CAD/SHEETS/D-5405016 DWC